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## ANNEXIN DERIVATIVES WITH ENDOGENOUS CHELATION SITES

## **Abstract of the Disclosure**

Modified annexins having an N-terminal chelation site comprising an amino acid extension are disclosed. The amino acid extension includes an amino acid sequence  $X_1$ -Gly- $X_2$ , where  $X_1$  and  $X_2$  are selected from Gly and Cys, where at least one of  $X_1$  or  $X_2$  is Cys. Radionuclides are readily chelated by the modified annexins to provide radiolabeled annexins useful in imaging vascular thrombi and apoptosis *in vivo*.

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